

TC 4.5 Solar Heat Gain Subcommittee

Minutes of the Meeting

Monday, June 25, 2001
4:15 to 6:30 PM

Hyatt Regency, Room E
Cincinnati, Ohio

Attendees:

Steve Harrison (Chair) / Queens University
Dragan Curcija / University of Massachusetts
François Dubrous / NRCan
William duPont / LBNL
Bipin Shah / NFRC
John Wright / University of Waterloo
Ross McCluney / Florida Solar
Brian Crooks / Cardinal Glass
Arild Gustavsen / Norwegian UST
Howdy Goudey / LBNL
Joe Klems / LBNL
Mahabir Bhandari / University of Massachusetts
Marcia Falke / NFRC
David Tait / Tait Solar
Robert Busby / Kalwall Corp
Anil Parekh / Natural Resources Canada

1. Introductions. Anil Parekh agreed to record the minutes of the meeting.
2. Attendance sheet was circulated.
3. Modification to agenda. François noted that the research subcommittee has appointed a subgroup to develop a long-range research plan. Subgroup will report on the long-range plan at the next meeting.
4. Approved the minutes from the previous meeting in Atlanta. David Tait moved and Joe Klems seconded. Approved with minor editorial changes.
5. Review of Action Items
 - Update of research projects
 - David Tait provided update on project 947 RP (Angle Dependent Solar Heat Gain Coefficients for Chapter 29 of the HoF).
Completed testing of all products. Also completed some retesting. Report is almost complete and will be submitted before the end of July 2001.

- C95 Reference Procedure to Obtain Typical Solar Spectra for Advanced Solar Heat Gain calculations.

The project is designated as 1143WS by ASHRAE. Brian Crooks reported that although the project was approved by TC, a RTAR (research topic acceptance request) is required for the ASHRAE approval procedure. Ross McCluney agreed to submit RTAR.

- Status of new proposals

Steve Harrison reviewed the existing list.

A95WS – round robin test for calorimeters. William duPont reported that the project could be split to be able to attract funding from NFRC and ASHRAE. He also asked to change the research priority from high to low as NFRC may proceed with the project on their own.

It was noted that a proposal from an awning manufacturer (Lincoln Christensen, Anchor Industries) be followed up with other TC.

Joe Klems tabled a new proposal to develop a simplified method to account for attachments. There were lengthy discussions on this proposal. Ross explained the need for a solar heat gain model for complex glazing systems. Steve Harrison and John Wright described the joint NSERC funded project between the University of Waterloo, Ryerson and Queen's on the development of solar heat gain procedures for complex systems. Based on these discussions, the following action items were identified:

- Steve Harrison to provide a progress report and work description to TC members along with a list of published reports/papers.
- Joe Klems to send his research proposal to Steve. Steve will distribute to all.

- Status of ASTM Solar Heat Gain Test Procedure

Willie duPont gave an update on the current status of the NFRC draft document (NFRC 201). This document was forwarded to ASTM for a formal test procedure. ASTM ballot will begin on July 28th. It was noted that this item would be discussed in the later meeting on the solar heat gain test procedure subcommittee meeting.

- Chair reminded everyone present to attend Forum 37 on Wednesday, June 27 (How to access the performance of tubular skylights.)

6. Handbook Issues

Dragan Curcija reported that the HoF chapter is finalized and would be available soon. He suggested everyone to look at research needs for further changes to the future edition of HoF.

7. New Business

Willie duPont suggested a name change from SHGC to G-factor. After discussions, this was immediately discarded and Willie withdrew the suggestion.

8. Adjournment

Meeting was adjourned at 6:15 (François / Joe)